

Investigation of deformation at a centrifugal compressor rotor in process of interference on shaft

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Abstract

© Published under licence by IOP Publishing Ltd. In this paper, according to the finite element method, we had implemented "master- slave" method of contact interaction in elastic deformable bodies, with consider of the friction in the contact zone. We had compiled the orientation of solving extremum problems with inequality restrictions, projection algorithm, which called "the closest point projection algorithm". Finally, an example, had brought to show the calculation of the rotor nozzle centrifugal compressor on the shaft with interference.

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